



For our location in Hamburg we are seeking:

# Postdoc in Data Science at DESY / EuXFEL

## DESY.

DESY, with its 2700 employees at its two locations in Hamburg and Zeuthen, is one of the world's leading research centres. Its research focuses on decoding the structure and function of matter, from the smallest particles of the universe to the building blocks of life. In this way, DESY contributes to solving the major questions and urgent challenges facing science, society and industry. With its ultramodern research infrastructure, its interdisciplinary research platforms and its international networks, DESY offers a highly attractive working environment in the fields of science, technology and administration as well as for the education of highly qualified young scientists.

European XFEL is the world's brightest operating X-ray laser, with unprecedented opportunity for scientific experiments in the photon sciences. It is currently heavily oversubscribed making it important to effectively tune this large scale facility for the individual photon users' needs. Virtual diagnostics will help to tune on the desired photon parameters at all times, even prior to instrument setup and during delivery. The project's main focus is to create a virtual diagnostic for wavefront diagnostics. The successful candidate's primary location will be within the DESY FEL R&D group, with further working points at the XFEL instrument, the machine control and the simulation groups at both XFEL and DESY.

## The position

- Data gathering and cleaning from both electron and photon systems of the EuXFEL
- Categorization of measurements and simulation data
- Train surrogate model(s) for a simulation framework
- Simulation and creation of virtual diagnostics

## Requirements

- PhD in data science or related field
- Experience with databases and surrogate models
- A working knowledge of x-ray optics, FEL physics and/or beam dynamics is a benefit
- Good command of English, German is a benefit
- Ability to communicate with and manage stakeholders from different fields

For further information please contact Marc Guetg ([marc.guetg@desy.de](mailto:marc.guetg@desy.de)).

The position is limited to 2 years.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. Handicapped persons will be given preference to other equally qualified applicants. DESY operates flexible work schemes. DESY is an equal opportunity, affirmative action employer and encourages applications from women. Vacant positions at DESY are in general open to part-time work. During each application procedure DESY will assess whether the post can be filled with part-time employees.

We are looking forward to your application via our application system: [www.desy.de/onlineapplication](http://www.desy.de/onlineapplication)

➤ Apply now!

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Deadline for applications: Until the position is filled